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20. The HF right-angle connector according to claim 12 further comprising an insulation displacement connection for connecting to an external conductor and a crimp connection for connecting to an internal conductor.

Remarks

An English translation of International Application PCT/IB00/00959 is filed herewith. Amendments to the literal translation were made to correct usage, phraseology matters and to comply with US practice. It is not believed any new substance has been added.

Additional amendments have been made to the Specification of the International Application PCT IB00/00959 to comply with U.S. practice. A marked up version of the amendments is attached.

The claims 1-11 contained in International Publication have been deleted. New claims have been added that correspond amended claims 1-9 of the PCT International Preliminary Examination Report annex, but with the reference numbers removed, multiple dependency removed and the dependency corrected in light of the new claim numbering and present the subject matter of the claims in a form corresponding to US practice.

In view of the foregoing amendments and remarks, this application is now believed to be in condition for allowance; therefore, reconsideration and allowance are in order and hereby respectfully requested. If the Examiner believes it would be helpful to discuss any aspect of this case, please contact

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Respectfully submitted,

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Marked Up Version of the Amendments

FIELD OF THE INVENTION

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The invention relates to an HF right-angle connector comprising a keyed plug receiver, on which a plug and comprising a socket housing, which is provided with connecting means for a coaxial cable.

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BACKGROUND OF THE INVENTION

HF right-angle connectors, generally used in motor vehicles, comprises a plug having a complimentary counterpart key fixed in an angular position. Depending on the direction in which the coaxial cable has to be led off by means of the right-angle connector, a different right-angle connector part is needed because the angular position of the keying in the plug receiver of the right-angle connector part is fixed. In these connector arrangements, three different right-angle connector parts are needed for a cable lead-off to the left, to the right and a central cable lead-off.

25 SUMMARY OF THE INVENTION

An object of the invention is therefore to provide a right-angle connector part, with which a cable lead-off in different directions is possible.

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BRIEF DESCRIPTION OF THE DRAWINGS

There now follows a detailed description of an embodiment of the invention, which is illustrated in the drawings in which:

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Figure 1 is an exploded view of the right-angle connector,

Figure 2 is an oblique view of the plug receiver and the socket housing in the separated state,

Figures 3 to 5 are oblique views of the right-angle connector having different angularly mounted plug receiver.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Figure 1 shows an exploded view of the right-angle connector according to the invention. It comprises a socket housing divided into two parts, namely a socket housing upper part 1 and a socket housing lower part 2. An insulation displacement apparatus upper part 3 and an insulation displacement apparatus lower part 4 are respectively inserted into the socket housing upper part 1 and the socket housing lower part 2 for contacting the external conductor of an HF coaxial cable 5. A crimp connection 7 is provided with an L-shaped internal conductor receptacle contact 6 for contacting the internal conductor of the coaxial cable 5. A plug receiver 8 is mountable on the socket housing upper part 1 for receiving an HF plug. A key for the plug to be received is formed on the plug receiver 8 and, depending on whether the coaxial cable 5 is to be led off to the left, to the right or centrally, the plug receiver 8 may be mounted in the corresponding desired position onto the socket housing upper part 1.

What is Claimed is:

12. An HF right-angle connector comprising a plug receiver, on which a key for the plug to be received is disposed, and a socket housing, in which connecting means for a coaxial cable are accommodated, wherein the plug receiver is mountable in various positions onto the socket housing and wherein a latching device for securing the plug to be received is disposed on the plug receiver, the plug receiver

being mountable in three different positions on the socket housing, so that the latching device is disposed either to the left of the socket housing or to the right or at the end face of the socket housing.

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13. The HF right-angle connector according to claim 12, wherein the latching device constitutes the key for the plug to be received.

10 14. The HF right-angle connector according to claim 12, wherein keying grooves/ribs are provided in the plug receiver which cooperate with corresponding keying ribs/grooves on the plug to be received.

15 15. The HF right-angle connector according to claim 12, wherein a middle part is disposed on the connecting side of the plug receiver to the socket housing, which is smaller than the area of the plug receiver, and a plate is disposed on the middle part, which projects laterally on all sides
20 beyond the middle part, and opposing U-shaped receivers are formed on the socket housing, into which the plate is insertable.

25 16. The HF right-angle connector according to claim 15, wherein the plate is substantially square and is provided with recesses for the cable routing.

30 17. The HF right-angle connector according to claim 15, wherein latching means are provided on the plug receiver and counterpart latching means are provided on the socket housing.

35 18. The HF right-angle connector according to claim 17 wherein the latching means comprise of projections on the middle part, and the counterpart latching means comprise recesses in the socket housing.

40 19. The HF right-angle connector according to claim 12 wherein the latching device on the plug receiver comprises of a latching hook, which is manually releasable by means of a button.

45 20. The HF right-angle connector according to claim 12 further comprising an insulation displacement connection for connecting to an external conductor and a crimp connection for connecting to an internal conductor.